AHRC: 'Verb semantics and argument realization in pre-modern Japanese' and the Oxford Corpus of Old Japanese

Oriental Institute
Faculty Meeting
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Stephen W Horn and Kerri L Russell

Verb semantics and argument realization in pre-modern Japanese

The Oxford Corpus of Old Japanese

Verb semantics and argument realization in pre-modern Japanese:

A comprehensive study of the basic syntax of pre-modern Japanese

Funding: The Arts and Humanities Research Council, UK, approximately £1 million

Period: 1 January 2009 - 30 September 2013

Website: http://vsarpj.orinst.ox.ac.uk

People

- Bjarke Frellesvig (Principal Investigator)
- Peter Sells (Co-Investigator; York)
- Mary Dalrymple
- Postdoctoral Researchers
 - Stephen Wright Horn
 - Kerri L Russell
- Doctoral students
 - Zixi You (Split intransitivity in Old Japanese)
 - Daniel Trott (Aspect in Old Japanese)

People External members

- Anton Antonov (INALCO and CRLAO, Paris)
- Satoshi Kinsui (Osaka University)
- Tomohide Kinuhata (Fukuoka University)
- Yasuhiro Kondo (Aoyama Gakuin/NINJAL)
- Masayoshi Shibatani (Rice University)
- Akira Watanabe (University of Tokyo)
- John Whitman (Cornell University/NINJAL)
- Yuko Yanagida (Tsukuba University)

Collaboration with the

National Institute for Japanese Language and Linguistics

NINJAL

国立国語研究所

VSARPJ

The research project investigates *argument realization* in detail for pre-modern Japanese.

Argument realization is a fundamentally important aspect of the syntax of a language which concerns the way in which verb meaning determines the number of arguments and their morpho-syntactic and semantic properties.

Argument realization

'Argument realization: the study of the possible syntactic expressions of the arguments of a verb'

(Beth Levin and Malka Rappaport Hovav, 2005, Argument realization, p. 1)

- (1) The boy broke the window with a ball
- (2) The boy hit the window with a ball
- (3) The window broke
- (4) *The window hit
- (5) I broke his leg / *I broke him on the leg
- (6) I hit his leg / I hit him on the leg

Argument realization

- (7) kabe-ni penki-o nuru wall-DAT paint-ACC smear 'smear paint on the wall'
- (8) kabe-ni posutaa-o haru wall-DAT poster-ACC put up 'put posters up on the wall'

Argument realization

- (9) penki-de kabe-o nuru
 paint-with wall-ACC smear
 'smear the wall with paint'
- (10) *posutaa-de kabe-o haru poster-with wall-ACC put up
- (11) kabe-ni posutaa-o hari-tsukusu wall-on poster-ACC hang-exhaust 'hang all the posters on the wall'
- (12) kabe-o posutaa-de hari-tsukusu wall-ACC poster-with hang-exhaust 'hang the wall all over with posters'

VSARPJ Synchronic part

A comprehensive account of the basic grammar of the Old Japanese language (approximately the 8th century).

- The range of argument realization for individual verbs and for (semantically based) verb classes.
- Lexical semantic features relevant in the classification of verbs (for example, semantic roles, lexical aspect, telicity, type of motion, causation, unaccusativity/unergativity)
- Patterns of argument realization.
- Other grammatical phenomena than argument realization which may be explained by verb semantics (for example, aspect, auxiliary selection, ellipsis, or specification of adjuncts or nonsubcategorized arguments).

VSARPJ Diachronic part

- An account of the development through time of verb semantics and argument realization, based on the results of the synchronic investigation.
- Inventory of changes through the history of Japanese in argument realization for individual verbs and for verb classes.
- General patterns of change, including possible development pathways for verb meanings and argument realization.

Change in class membership

Old Japanese

transitive

ide- 'take/go out' ----<

intransitive

idas- 'take out' ----

---- transitive

Modern Japanese

de-ru 'go out' -

intransitive

das−u 'take out' ----

transitive

Old Japanese

Modern Japanese

intransitive

Old Japanese

Modern Japanese

Comprises all poetic texts from the Old Japanese period

approximately 90,000 words

website: http://vsarpj.orinst.ox.ac.uk/corpus/

Old Japanese texts

IN the Oxford Corpus of OJ

- Kojiki kayō
- Nihon shoki kayō
- Fudoki kayō
- Bussokuseki-ka
- Man'yōshū
- Shoku nihongi kayō

古事記歌謡 712

日本書紀歌謡 720

風土記歌謡 730s

仏足石歌 after 753

万葉集after 759

続日本紀歌謡 797

NOT in the Oxford Corpus of OJ

- Shoku nihongi Senmyō
- Engishiki Norito

宣命 697-791

祝詞 (compiled 927)

XML markup following the standards of the Text Encoding Initiative (TEI)

Phonemic transcription and original script, noting logographic and phonographic writing

Annotation

Lexeme and morpheme ID numbering

Lexicon

Part of speech

Morphology

Annotation

Syntactic constituency:

noun phrases

clauses

topics

right dislocated elements

Argumenthood

Semantic roles (discontinued)

Text example *Man'yōshū* 8.1606

君待跡

吾戀居者

我屋戸乃

簾令動

秋之風吹

君待跡 kimi matu *to*

my.lord wait as

吾戀居者 wa <u>ga</u> kwopwi woreba

I GEN love PROG.PROV

我屋戸乃 wa <u>ga</u> yadwo *no*

I GEN hut GEN

簾令動 sudare ugwokasi

curtain move

秋之風吹 aki no kaze puku

autumn GEN wind blow

Writing

- Phonographic writing
 - 。我屋戸乃 wa ga yadwo *no*
- Logographic writing
 - 。 我屋戸乃 wa ga yadwo *no*
 - No writing
 - ・我屋戸乃 wa ga yadwo *no*

The problem with logographic writing: Identification

為者

sure-ba provisional 'as, when'

se-ba 'if'

suru pa conditional adnominal + TOP

Morphology

$$\begin{array}{l} \text{kimi}_{(\text{noun})} \; \text{matu}_{(\text{verb, adnconc})} \; \textit{to}_{(\text{particle, conj})} \\ \text{Wa}_{(\text{pronoun})} \; \text{ga}_{(\text{particle, case, gen})} \; \text{kwopwi}_{(\text{verb, infinitive})} \; \text{woreba}_{(\text{verb, provisional})} \\ \text{Wa}_{(\text{pronoun})} \; \text{ga}_{(\text{particle, case, gen})} \; \text{yadwo}_{(\text{noun})} \; \textit{no}_{(\text{particle, case, gen})} \\ \text{sudare}_{(\text{noun})} \; \text{ugwokasi}_{(\text{verb, infinitive})} \\ \text{aki}_{(\text{noun})} \; \text{no}_{(\text{particle, case, gen})} \; \text{kaze}_{(\text{noun})} \; \text{puku}_{(\text{verb, adnconc})} \\ \end{array}$$

{Clauses} and <Phrases>

$$\left\{ \left\{ \left\{ \left\langle \text{kimi}_{(\text{noun})} \right\rangle \right. \right. \right. \\ \left. \left\langle \text{wa}_{(\text{pronoun})} \right| ga_{(\text{particle, case, gen)}} \right\rangle \left. \left\langle \text{wopwi}_{(\text{verb, infinitive})} \right| \text{woreba}_{(\text{verb, provisional})} \right\} \\ \left\{ \left\langle \text{wa}_{(\text{pronoun})} \right| ga_{(\text{particle, case, gen)}} \right. \\ \left. \left\langle \text{wa}_{(\text{pronoun})} \right\rangle \left. \left(\text{particle, case, gen)} \right| \left\langle \text{aki}_{(\text{noun})} \right. \right\rangle \left. \left(\text{particle, case, gen)} \right| \left\langle \text{aki}_{(\text{noun})} \right. \right\rangle \left. \left(\text{particle, case, gen)} \right| \left\langle \text{akze}_{(\text{noun})} \right\rangle \left. \left(\text{puku}_{(\text{verb, adnconc)}} \right) \right\}$$

The Oxford Corpus of OJ provides

- Easy access to the texts
- Searchability of individual words, especially verbs, regardless of their inflected form; or of sets of words
- Searchability of syntactic frames for individual verbs
- Searchability of structural patterns, e.g., case marking and word order, very generally, or limited to (sets of) specific verbs

Further perspectives for the OCOJ

- Flexibility
- Expandability
- Other applications
 - Linguistics
 - Literature
 - History

XML mark-up

<text> <body> <div> <ab xml:id="MYS.8.1606"> <s> <cl> <cl> <phr> <w type="noun" ana="#L004266"> <c type="logo">kimi</c> </w> </phr> <w type="verb" inflection="adnconc" ana="#L031644"> <c type="logo">matu</c> </w> <w type="particle" subtype="conj" ana="#L000541"> <c type="phon">to</c> </w> </cl> <lb/> <cl> <phr type="arg"> <w type="pronoun" ana="#L042057"> <c type="logo">wa</c> </w> <w type="particle" subtype="case" function="gen" ana="#L000503"> <c type="noLogo">ga</c> </w> </phr> <w type="verb" inflection="infinitive" ana="#L030731"> <c type="logo">kwopwi</c> </w> <w type="verb" inflection="provisional" ana="#L031957" function="progressive"> <c type="logo">woreba</c> </w> </cl> <lb/> <cl type="adjunct"> <phr type="arg"> <w type="pronoun" ana="#L042057"><c type="logo">wa</c> </w> <w type="particle" subtype="case" function="gen" ana="#L000503"> <c type="noLogo">ga</c> </w> <w type="noun" ana="#L050030"> <ctype="logo">yadwo</c> </w> <w type="particle" subtype="case" function="gen" ana="#L000520"> <c type="phon">no</c> </w> <lb/> <w type="noun" ana="#L050031"> <c type="logo">sudare</c> </w> </phr> <w type="verb" inflection="infinitive" ana="#L030247"> <c type="logo">ugwokasi</c> </w>

オックスフォード大学 日本語研究センター www.orinst.ox.ac.uk/research/jap-ling/

ご清聴ありがとうございました

Websites

VSARPJ: http://vsarpj.orinst.ox.ac.uk/

OCOJ: http://vsarpj.orinst.ox.ac.uk/corpus/